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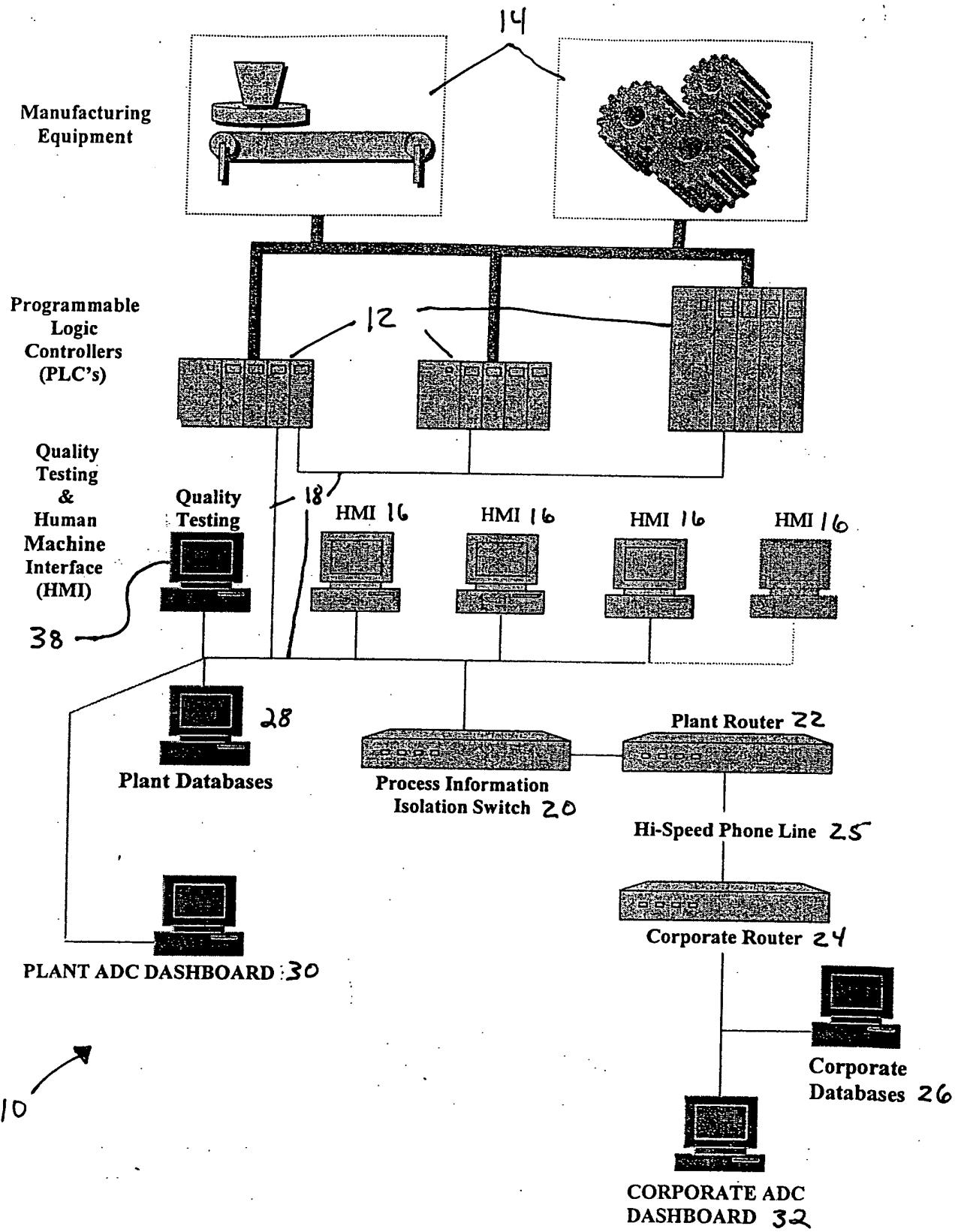


Fig. 1

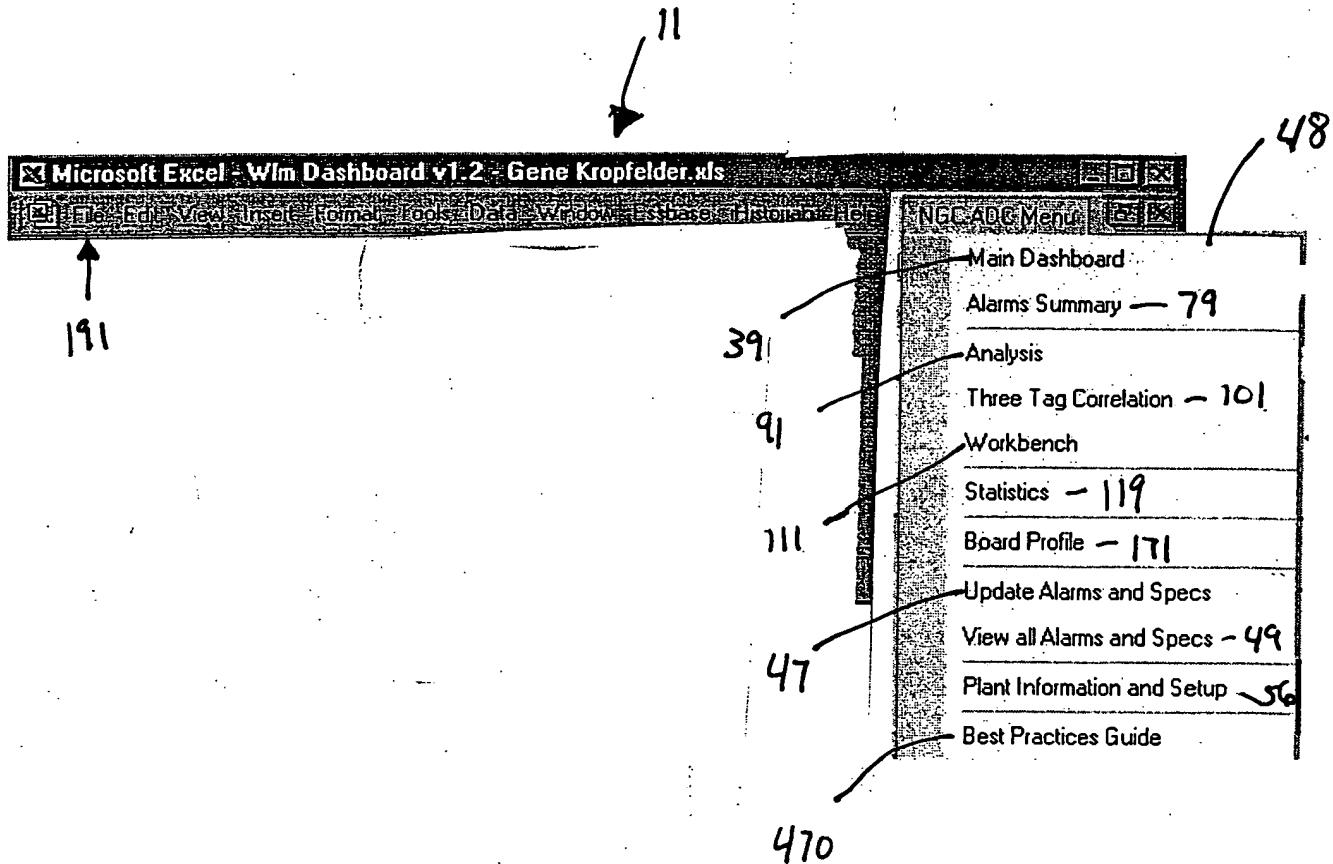


Figure 2a

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REQUESTED DAY			PREVIOUS DAY		
September 29, 2002			September 28, 2002		
ALARMS			ALARMS		
Shift 1	Shift 2	Shift 3	Shift 1	Shift 2	Shift 3
9			5		15
15	53	12	10		
5			9		15
34			40		18
SETUP TARGETS	34		7		21
			None		

41

45

44

57

40  
55

Fig. 2b

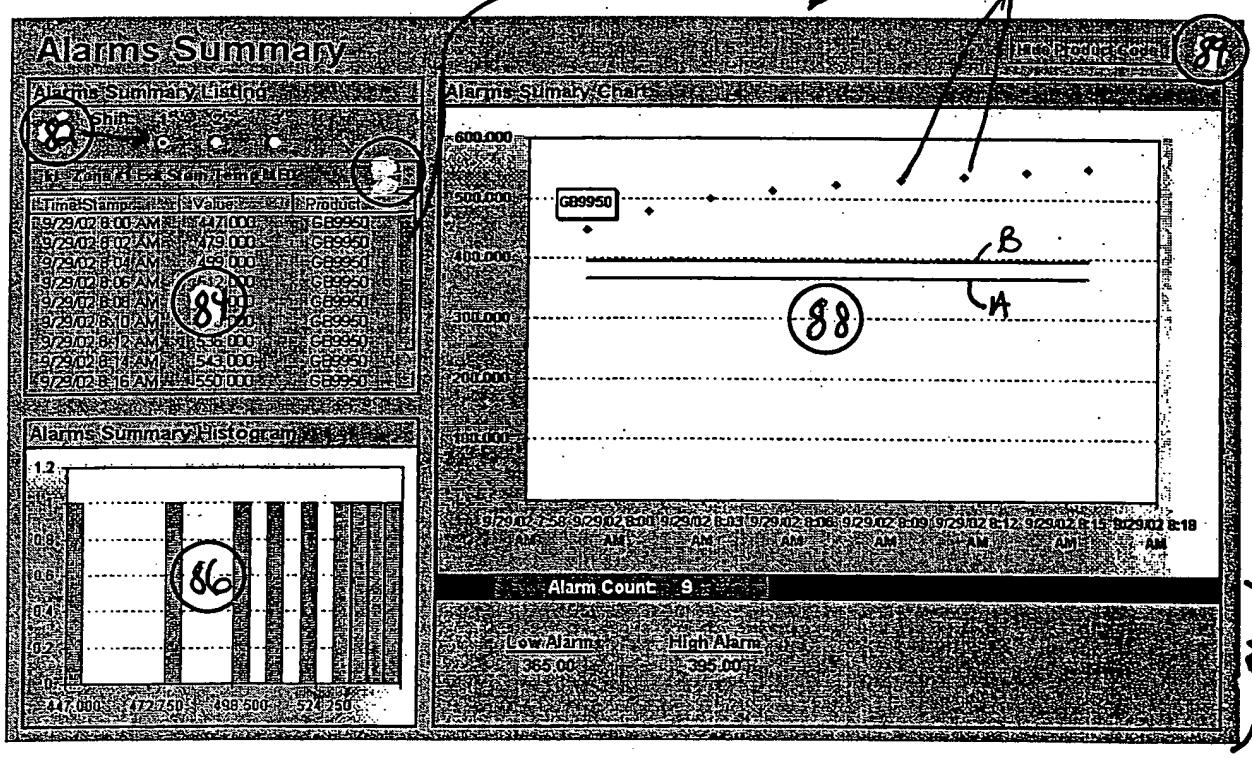


Fig. 3

435

436

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Update Alarms and Specifications																									
UPDATE	Select From:		Millidegrees		C		F		K		Rankine		User-defined												
CANCEL	Current		Historical		Present		Future		Smoothed		Raw		Smoothed												
Select Measure																									
ml - Calcine #6 Outlet Temp Actual																									
PLC Value	All	1	2	3	4	5	6	7	8	9	10	11	12	13											
Product Description	All	112 REG 102 HIS 102 HSI 102 HSI	112 REG 102 HIS 102 HSI 102 HSI	112 REG 102 HIS 102 HSI 102 HSI	112 REG 102 HIS 102 HSI 102 HSI	112 REG 102 HIS 102 HSI 102 HSI	112 REG 102 HIS 102 HSI 102 HSI	112 REG 102 HIS 102 HSI 102 HSI	112 REG 102 HIS 102 HSI 102 HSI	112 REG 102 HIS 102 HSI 102 HSI	112 REG 102 HIS 102 HSI 102 HSI	112 REG 102 HIS 102 HSI 102 HSI	112 REG 102 HIS 102 HSI 102 HSI	112 REG 102 HIS 102 HSI 102 HSI											
Product Code	All	GB4080	GB0019	GB86270	GB0116	GB2280	GB85926	GB86793	GB86601	GB6058	GB9950	GB1280	GB1310												
High Alarm	370	370	370	370	370	370	370	370	370	370	370	370	370												
Low Alarm	330	330	330	330	330	330	330	330	330	330	330	330	330												
Upper Spec Limit	0	0	0	0	0	0	0	0	0	0	0	0	0												
Lower Spec Limit	0	0	0	0	0	0	0	0	0	0	0	0	0												

Fig. 49

59

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Microsoft Excel - Wim Dashboard v1.2 - Gene Kropfeder.xls																
Alarms and Warnings Specification		SOX														
Row for Last Tag	PLC Value	All	1	2	3	4	5	6	7	8	9	10	11	12	13	14
125	Product Description	All	3/8" TE	1/2" TE	1/2" KK	1/2" FSO	1/2" MR	1/2" KK FS	HS CELISTA	SMO	SHEATH	5/8" FS	5/8" MR FS	5/8" KK FS	5/8" FS JS	
	Product Code	All	GB3990	GB4080	GB5620	GB6793	GB3760	GB1242	G80019	G86270	G88000	GB9950	GB1400	GB1050	GB9466	
wim_B1_Line_Speed_Actual	High Alarm	190	190	190	190	190	190	190	190	190	190	190	190	190	190	
	Low Alarm	140	140	140	140	140	140	140	140	140	140	140	140	140	140	
	Upper Spec Limit															
	Lower Spec Limit															
	Retrieval Interval															
wim_WE_Soap_Actual	High Alarm	0.6	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
	Low Alarm	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	
	Upper Spec Limit															
	Lower Spec Limit															
	Retrieval Interval															
wim_WE_Stucco_Temp	High Alarm	220	220	220	220	220	220	220	220	220	220	220	220	220	220	
	Low Alarm	190	190	190	190	190	190	190	190	190	190	190	190	190	190	
	Upper Spec Limit															
	Lower Spec Limit															
	Retrieval Interval															
wim_XF_Ramsey_Weight_Actual	High Alarm	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600	
	Low Alarm	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	2300	
	Upper Spec Limit															
	Lower Spec Limit															
	Retrieval Interval															
wim_WE_Gauging_Water_Actual	High Alarm	620	620	620	620	620	620	620	620	620	620	620	620	620	620	
	Low Alarm	400	400	400	400	400	400	400	400	400	400	400	400	400	400	
	Upper Spec Limit															
	Lower Spec Limit															
	Retrieval Interval															
wim_DE_Moisture_Average	High Alarm	16.5	18.5	16.5	16.5	16.5	18.5	16.5	18.5	16.5	18.5	16.5	18.5	16.5	18.5	
	Low Alarm	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	
	Upper Spec Limit															
	Lower Spec Limit															
	Retrieval Interval															
wim_RD_Pan_Feeder_Rate_Actual	High Alarm	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
	Low Alarm	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	Upper Spec Limit															
	Lower Spec Limit															
	Retrieval Interval															
wim_RD_Moisture_Actual	High Alarm	77	77	77	77	77	77	77	77	77	77	77	77	77	77	
	Low Alarm	72	72	72	72	72	72	72	72	72	72	72	72	72	72	
	Upper Spec Limit															
	Lower Spec Limit															

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Fig. 46

Product Information			
PI#	Value	Product Code	Description
			Width (inches)
0		NONE	NO PRODUCT RUNNING.
1		GB2080	1/2" REGULAR
2		GB0019	1/2" HS TE
3		GB5270	1/2" SS TE (Sta-Smooth)
4		GB0116	1/2" SS HS (Sta-Smooth)
5		GB2280	1/2" KK TE
6		GB5926	1/2" DB (Durabase)
7		GB6730	1/2" FSC TE
8		GB6601	1/2" FSC SS (Sta-Smooth)
9		GB6056	1/2" FSC KK
10		GB9950	5/8" FS TE
11		GB1280	5/8" FS KK
12		GB1310	5/8" FS SS
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			

Shift Information			
	Start Time	End Time	Explain
1 <sup>ST</sup> SHIFT	8:00 AM	4:00 PM	
2 <sup>ND</sup> SHIFT	10:00 AM	6:00 PM	
3 <sup>RD</sup> SHIFT	1:00 AM	8:00 AM	

Plant Information	
Line Length (Mixer to Knife) - Feet	595
Wet Transfer Length - Feet	413
Kiln Length - Feet	413
Number of Deck Zones	3
Kiln Zone 1 Length - Feet	121
Kiln Zone 2 Length - Feet	67
Kiln Zone 3 Length - Feet	205
Kiln Zone 4 Length - Feet	

70      66      64      68

76

fij. 5

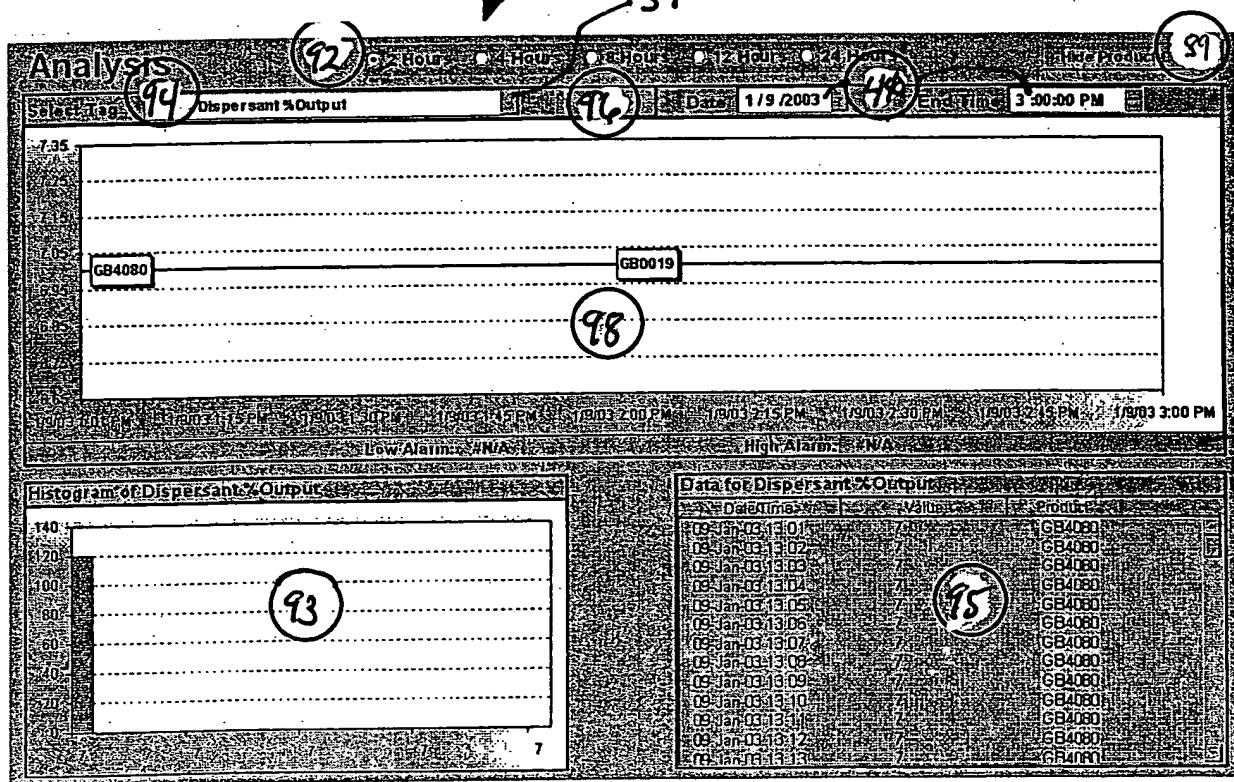


Fig. 4

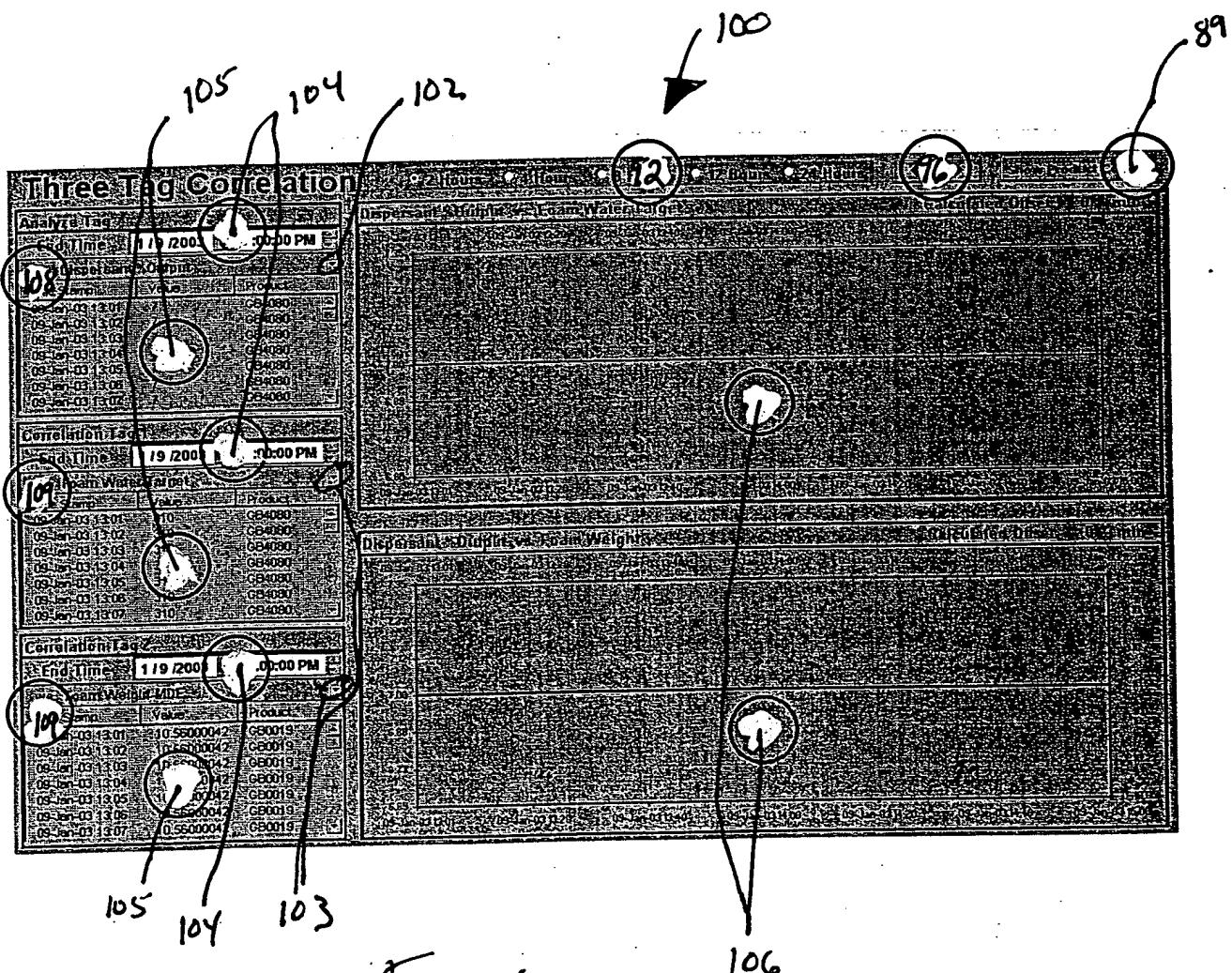


Fig. 7

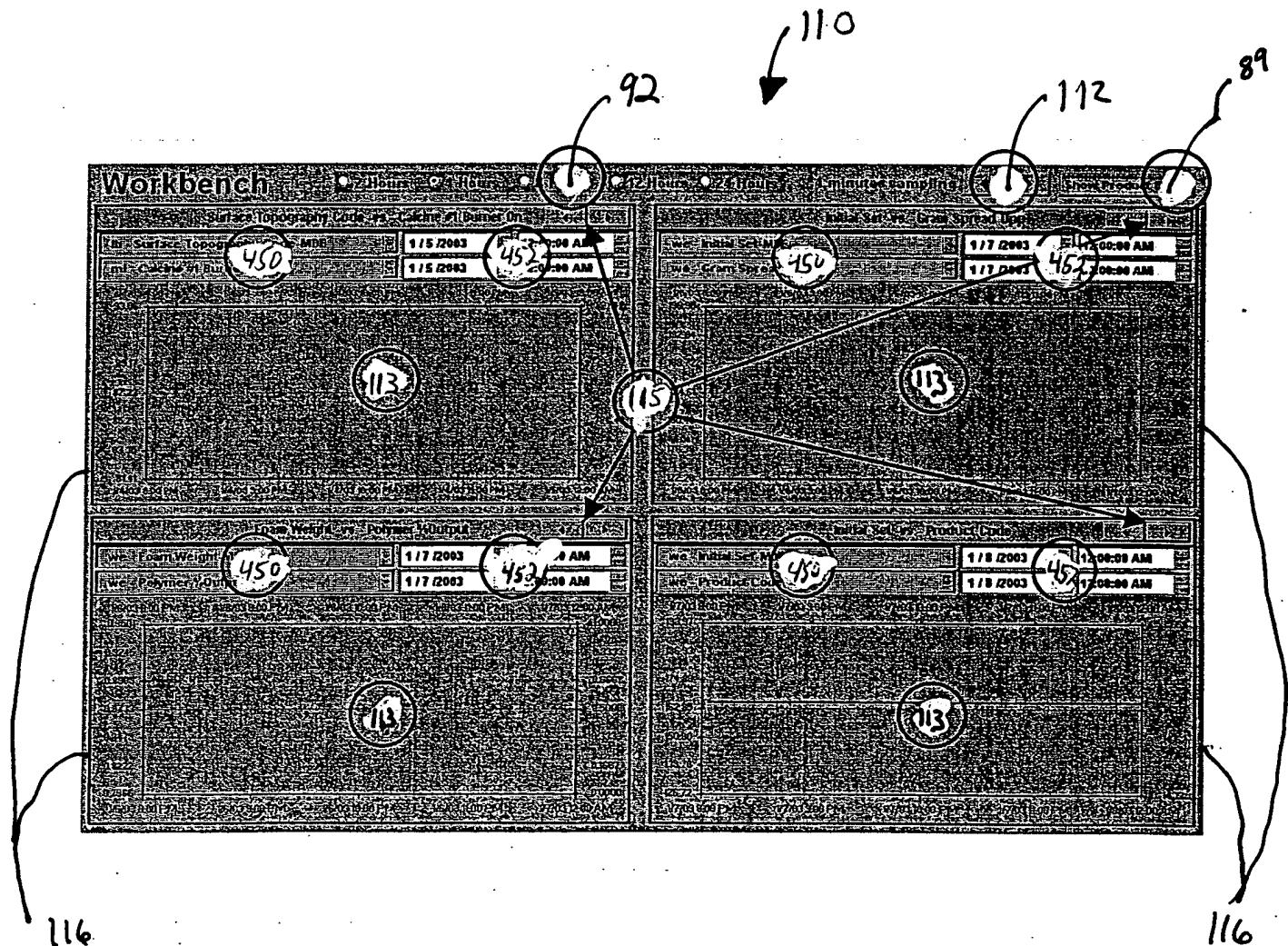


Fig. 8

Fig. 9

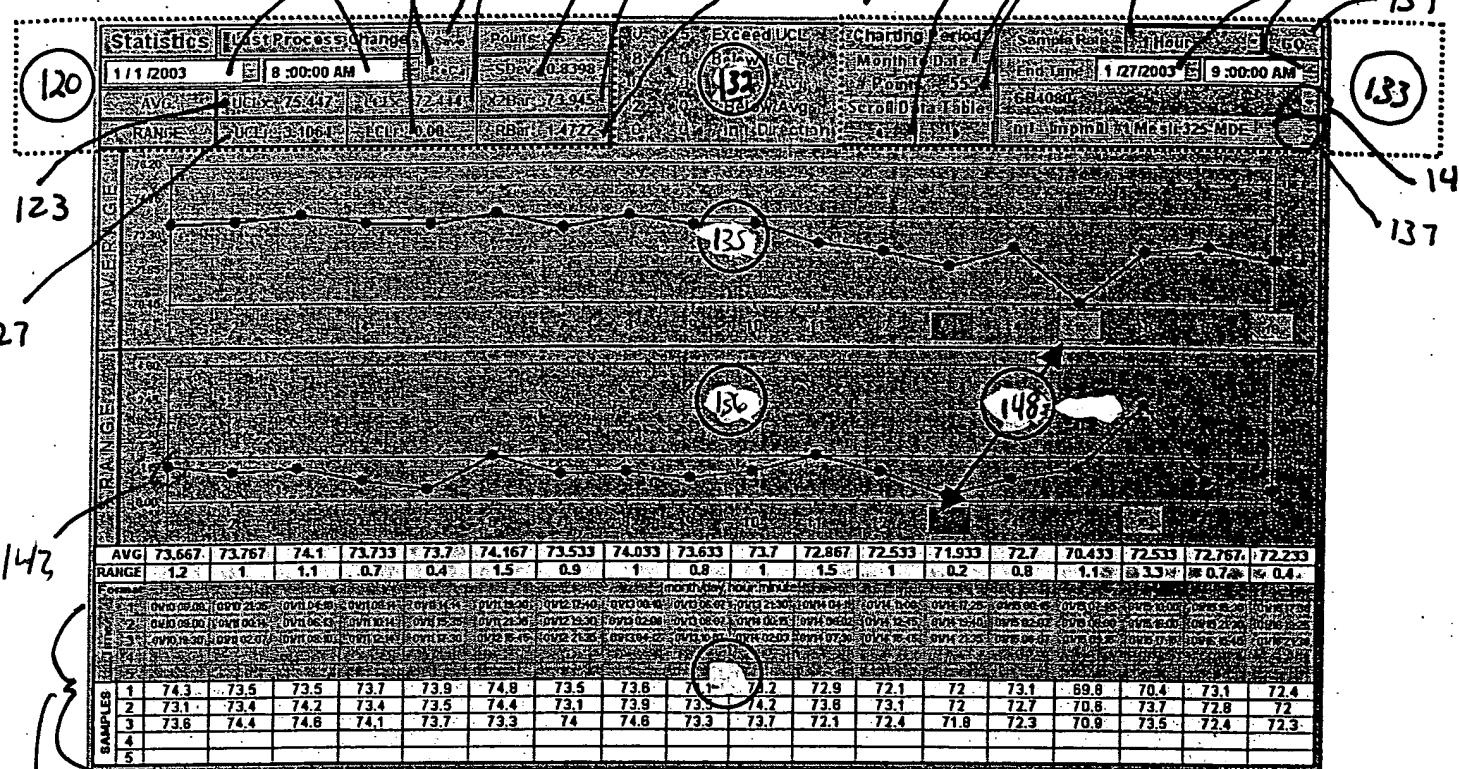


Fig. 10

SPC Reason, and Actions

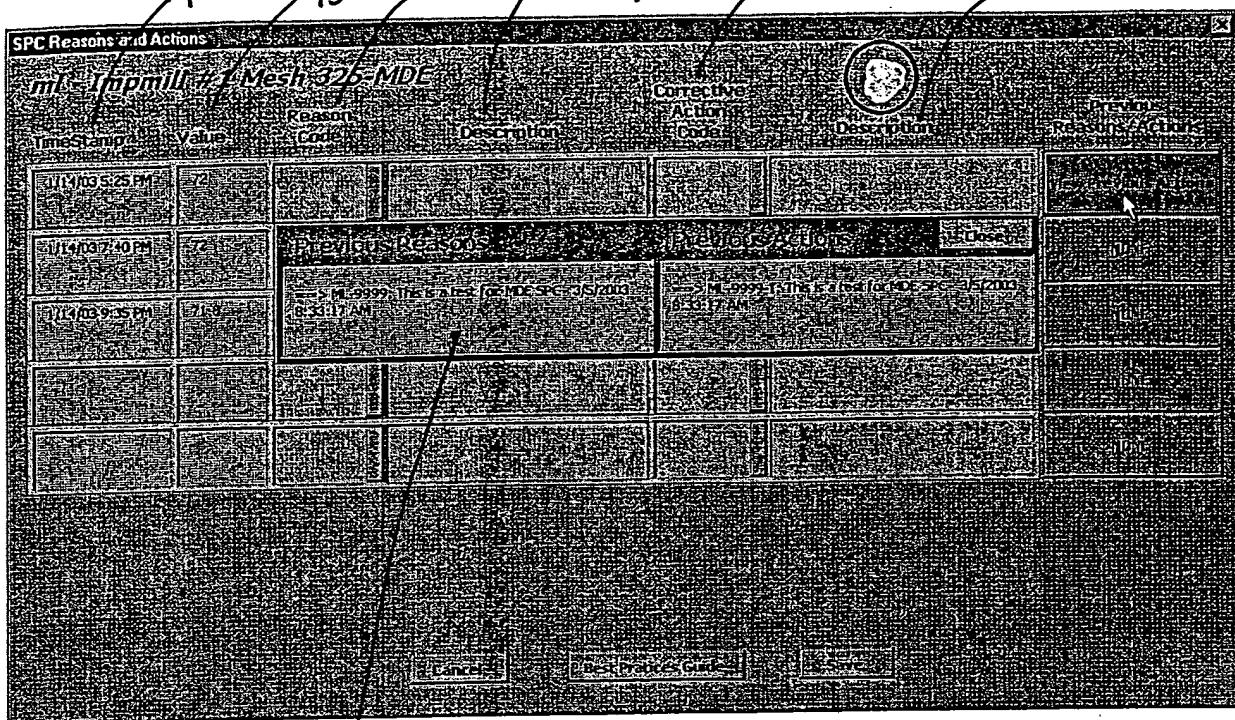
File: ImpMill-001 Mesh 327 MDE

Reason/Action Code	Description	Comments	Reason/Action Code	Description	Comments
11/03/9-TEAM	7310		11/03/10-30 AM	7310	
11/03/12-31 PM	6319		11/03/12-31 PM	6319	
You can type over the description for codes ending with -999. <input type="button" value="Cancel"/> <input type="button" value="OK"/>			<input type="button" value="Cancel"/> <input type="button" value="OK"/>		

Use the dropdowns to select the Reason/Action Code from the valid list of codes.

152 154 156 158 150 160 162 168 169 164 167

Fig. 11a



475-

Fig. 116

The goal of this SOP is to produce stucco that is calcined below theoretical with as few adjustments as possible.

## Best Practice / S.O.P 166

### 1. COMBINED WATER OF STUCCO EXCEEDS THE UPPER LIMIT.

MAKE SURE THE GRINDS ARE IN THE REASONABLE LIMITS.  
(COARSE GRINDS WILL CAUSE THE MOISTURES TO GO UP)

EXAMINE THE HISTORY OF PREVIOUS MOISTURE'S.  
(2 SAMPLES IN A ROW HIGH OR MOST OF THE SAMPLES WERE HIGH)

EXAMINE THE PURITY.

(IF THE PURITY WENT UP QUITE A BIT, THE MOISTURE'S WILL GET HIGHER)

IF GRINDS ARE OUT OF THE CONTROL LIMITS, THEY NEED TO BE LINED OUT BEFORE ANY ADJUSTMENTS ARE MADE TO THE CALCIDYNE'S.

IF GRINDS ARE IN THE CONTROL LIMITS AND PURITY IS STABLE AND SAMPLE STILL EXCEEDS THE UPPER LIMITS THEN AN ADJUSTMENT TO THE CALCIDYNE NEEDS TO BE MADE.

WHEN THE PURITY GOES UP, IT MAY TAKE SOME TIME FOR THE CALCIDYNE'S TO ADJUST, NO NEED TO MAKE ADJUSTMENTS RIGHT AWAY. RUN A COUPLE OF SAMPLES AND SEE IF THEY WILL ADJUST BY THEMSELVES. IF NOT MAKE AN ADJUSTMENT.

### 2. COMBINED WATER OF STUCCO IS LESS THAN THE LOWER LIMIT

MAKE SURE THE GRINDS ARE IN THE REASONABLE LIMITS.  
(FINE GRINDS WILL CAUSE THE MOISTURES TO GO DOWN)

EXAMINE THE HISTORY OF PREVIOUS MOISTURE'S.  
(2 SAMPLES IN A ROW LOW OR MOST OF THE SAMPLES WERE LOW)

EXAMINE THE PURITY.

(IF THE PURITY WENT DOWN QUITE A BIT, THE MOISTURE'S WILL GET LOWER)

IF GRINDS ARE OUT OF THE CONTROL LIMITS, THEY NEED TO BE LINED OUT BEFORE ANY ADJUSTMENTS ARE MADE TO THE CALCIDYNE'S.

IF GRINDS ARE IN THE CONTROL LIMITS AND PURITY IS STABLE AND SAMPLE STILL EXCEEDS THE LOWER LIMITS THEN AN ADJUSTMENT TO THE CALCIDYNE NEEDS TO BE MADE.

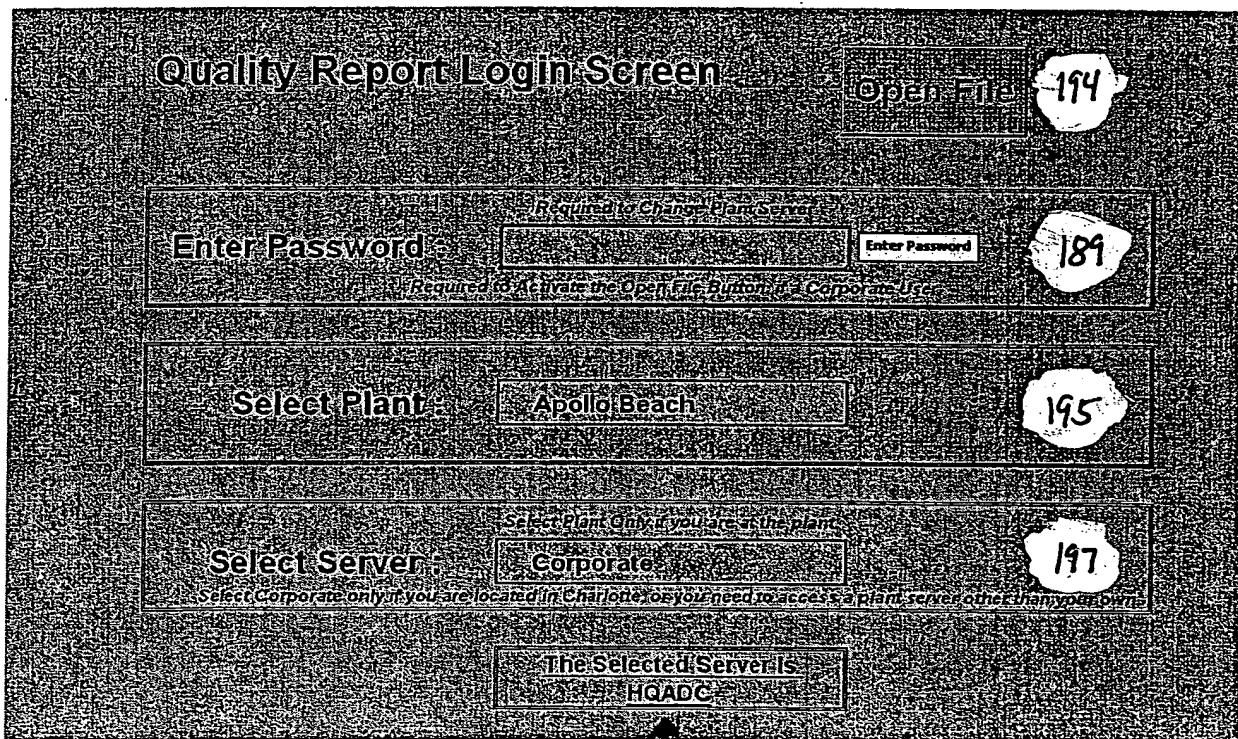


Fig. 13

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**MONTHLY BOARD QUALITY REPORT**

**Select Plant and Date For Report**

Selected Plant	195	Wilmington
Select Month/Year	2002	11 December
Start Date	12/01/2002	
End Date	12/31/2002	

**Select Products To Include In This Report**

Product 1	1/2" HS CEILING
Product 2	1/2" MR
Product 3	1/2" TE
Product 4	1/2" FSG
Product 5	5/8" FS

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Several User Options

199 HQADC

**View Product Detail**

210

**View / Print Reports**

213

201

215

Selected Server

197 Corporate

Fig. 14

# MONTHLY BOARD QUALITY REPORT

200

PRODUCT CODE AND DESCRIPTION	GB4080 401 1/2" REG TE	GB9950 401 5/8" FST TE	GB2280 901 1/2" KK TE	GB00197 401 1/2" HS TE	GB01164 401 1/2" SS HS (SEA Smooth)
------------------------------	---------------------------	---------------------------	--------------------------	---------------------------	-------------------------------------------

Lab	NAIL PULL - lbs of force				
Number of samples	75	22	1	9	4
Specification ( Min )	80.0	90.0	80.0	80.0	80.0
3-Month Rolling Average	71.4	84.8	82.1	70.6	70.9
Standard Deviation	2.722	4.458		2.985	3.081
Year-to-Date Average	71.4	84.8	82.1	70.6	70.9
Prior Year Average	74.886	89.838	85.750	77.067	76.100
Cpk	-1.049	-0.391		-1.046	-0.990
Est. Defects Per 1,000 Units	> 500	> 500		> 500	> 500
Cp	-1.049	-0.391		-1.046	-0.990

Lab	CORE HARDNESS - lbs of force				
Number of samples	68	21	1	9	4
Specification ( Min )	15.0	15.0	15.0	15.0	15.0
3-Month Rolling Average	17.1	23.0	19.3	17.1	16.3
Standard Deviation	1.366	1.750		1.054	0.831
Year-to-Date Average	17.1	23.0	19.3	17.1	16.3
Prior Year Average	18.276	23.056	17.333	18.389	16.889
Cpk	0.518	1.514		0.668	0.535
Est. Defects Per 1,000 Units	80	< 1		40	80
Cp	0.518	1.514		0.668	0.535

Lab	EDGE HARDNESS - CODE - lbs of force				
Number of samples	67	21	1	8	4
Specification ( Min )	15.0	15.0	15.0	15.0	15.0
3-Month Rolling Average	56.1	72.4	64.3	56.5	51.7
Standard Deviation	4.725	9.285		6.644	7.193
Year-to-Date Average	56.1	72.4	64.3	56.5	51.7
Prior Year Average	42.430	64.194	55.000	43.846	47.000
Cpk	2.900	2.061		2.080	1.703
Est. Defects Per 1,000 Units	< 1	< 1		< 1	< 1
Cp	2.900	2.061		2.080	1.703

Lab	EDGE HARDNESS - OPP CODE - lbs of force				
Number of samples	66	21	1	8	4
Specification ( Min )	15.0	15.0	15.0	15.0	15.0
3-Month Rolling Average	62.1	75.0	79.3	57.7	62.7
Standard Deviation	5.351	7.700		4.366	0.837
Year-to-Date Average	62.1	75.0	79.3	57.7	62.7
Prior Year Average	49.159	60.030	62.222	46.282	47.000
Cpk	2.934	2.599		3.261	19.016
Est. Defects Per 1,000 Units	< 1	< 1		< 1	< 1
Cp	2.934	2.599		3.261	19.016

Lab	END HARDNESS - lbs of force				
Number of samples	69	21	1	9	4
Specification ( Min )	15.0	15.0	15.0	15.0	15.0
3-Month Rolling Average	16.1	22.2	20.3	16.4	15.2
Standard Deviation	1.385	1.798		0.961	0.638
Year-to-Date Average	16.1	22.2	20.3	16.4	15.2
Prior Year Average	17.829	22.528	18.000	18.028	16.889
Cpk	0.255	1.336		0.488	0.087
Est. Defects Per 1,000 Units	300	< 1		120	> 500
Cp	0.255	1.336		0.488	0.087

Fig. 15

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**Return**

c214

**Monthly Board Weight Report**PLANT : WilmingtonMONTH : February 2003**Save As File**

430

1/2" SHEATHING Board	MONTHLY WEIGHT DATA		
	Avg Weight	Std Dev	No. Samples
December 2002	1719	9	2
January 2003	1713	16	6
February 2003			
March 2003			
April 2003			
May 2003			
June 2003			
July 2003			
August 2003			
September 2003			
October 2003			
November 2003			
December 2003			
YTD AVERAGE	1713	16	6

Fig. 16

Product Data

PLC Value	Description	Product Code	Width	STD Speed	STD Dry Weight	STD Water Loss	STD - 2-Hr Humidified Bond	STD - 20-Hr Humidified Bond	Go Live Date
0	NO PRODUCT RUNNING	NCNE	NA	NA	NA	NA	NA	NA	6/1/02 12:00 AM
1	3/8" TF	GB1990	48"						
405	1/2" TE	GB1100	48"						
1	1/2" KK	GB5620	48"						
4	1/2" FSG	GB6793	48"						
5	1/2" MR	GB3760	48"						
6	1/2" KK FS	GB1242	48"						
7	1/2" HS CEILING	GB0019	48"						
8	1/2" SS (STA SMOOTH)	GB6270	48"						
9	1/2" SHEATHING	GB8000	48"						
10	5/8" FS	GB9950	48"						
11	5/8" MR FS	GB1400	48"						
12	5/8" KK FS	GB1050	48"						
13	5/8" FS JS	GB9465	48"						
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									

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407

408

Return

Fig. 17

431

430

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Return		1/2" TE GB-4080		February 2003		Taper Depth						Edge Hardness						Transverse:	
Date		Machine Speed	Dry Weight	Wet Weight	Water Loss	Board Width	Code	Opp Code	Caliper	Nail Pull	Core Hardness	Code	Opp Code	End Hardness	d Deflection	Face Up MD	Face Down		
January 2003																			
Monthly Information																			
Court	1339	272				272	270	271	272	25	3	3	0	3	9	25	25		
January 2003	160.7	1714				48.00	0.056	0.056	0.490	77.1	21.2	30.2		19.2	0.117	51	51		
Daily Information																			
January 1, 2003																			
January 2, 2003																			
January 3, 2003	161.8	1732	2505	773	48.00	0.055	0.056	0.491											
January 4, 2003	162.0	1713	2513	801	48.00	0.054	0.053	0.491	75.2								40 44		
January 5, 2003	168.2	1698		770	48.00	0.049	0.054	0.491											
January 6, 2003	161.8	1718		760	48.00	0.053	0.056	0.492	88.0								0.125 43 52		
January 7, 2003	161.7	1670		790	48.00	0.049	0.059	0.490	74.4								0.125 47 52		
January 8, 2003	161.8	1718		761	48.00	0.059	0.061	0.491	77.7								0.094 53 50		
January 9, 2003	161.8	1709		762	48.00	0.052	0.060	0.495	74.0								50 53		
January 10, 2003																			
January 11, 2003	169.7	1721		765	48.00	0.054	0.053	0.487											
January 12, 2003	161.8	1718		773	48.00	0.045	0.049	0.489	82.0								0.125 51 58		
January 13, 2003	162.1	1728	2518	789	47.99	0.054	0.056	0.490	76.7								0.125 51 53		
January 14, 2003	161.9	1715	2535	820	47.98	0.061	0.058	0.491	78.7	21.3	30.3		20.0	0.125	55	51			
January 15, 2003	161.8	1713	2534	821	48.00	0.050	0.062	0.495											
January 16, 2003	177.7	1703	2503	802	48.00	0.063	0.062	0.489											
January 17, 2003	161.7	1734	2567	833	48.00	0.063	0.053	0.490	76.2								0.094 60 51		
January 18, 2003																			
January 19, 2003	177.9	1709	2533	823	47.99	0.060	0.046	0.497											
January 20, 2003	162.1	1708	2504	798	48.00	0.053	0.046	0.490	78.8								0.125 52 48		
January 21, 2003	161.0	1709	2537	826	48.00	0.048	0.047	0.491	74.8								60 58		
January 22, 2003	179.8	1718	2553	838	48.00	0.052	0.055	0.489	79.2	21.0	30.0		18.3				50 49		
January 23, 2003	160.9	1719	2535	815	47.99	0.055	0.062	0.492	81.0								52 52		
January 24, 2003	162.0	1725	2547	822	47.98	0.068	0.068	0.493	85.8								49 53		
January 25, 2003																			
January 26, 2003	178.5	1722	2524	802	47.99	0.067	0.058	0.493	73.3								47 52		
January 27, 2003	162.0	1718	2515	797	48.00	0.055	0.065	0.488	70.8								48 52		
January 28, 2003	161.7	1715	2524	809	48.00	0.061	0.055	0.489	77.0								51 59		
January 29, 2003	161.8	1709	2541	833	47.99	0.058	0.061	0.491	68.8								49 50		
January 30, 2003	161.5	1713	2537	824	48.00	0.049	0.058	0.491											
January 31, 2003																			

Fig. 18a

	Machine Speed	Taper Depth						Edge Hardness				Transverse S				
		Dry Weight	Vet Weight	Water Loss	Board Width	Opp Code	Opp Code	Caliper	Nail Puff	Core Hardness	Opp Code	End Hardness	d Deflection	Face Up MD	Face Down	F
<b>February 2003</b>																
3-Month Rolling Avg																
Average	180.6	2511	800	47.997	0.057	0.056	0.490	77.5	21.8	26.8	0	19.0	0.128	48	50	
Number of Samples	2931	845	54	593	0.050	0.050	0.485	593	49	3	3	3	28	49	49	
LSL				47.29/32				80	15.0	15.0	15.0			40	40	
USL				48	0.050	0.050	0.515							1.250		
Std Dev	3.484	55.368	45.958	33.603	0.018	0.020	0.017	0.004	4.387	1.072	2.411	0.882	0.028	4.442	3.550	
Std Dev / 1.7321	2.000	31.967	26.533	19.400	0.009	0.011	0.010	0.002	2.533	0.619	1.392	0.509	0.014	2.564	2.050	
Cpku					0.115	0.948	1.178	3.690						26.368		
Cstd					3.230	0.217	0.222	0.829	-0.334	3.652	3.299	2.619		1.037	1.668	
Cok					0.115	0.217	0.222	0.829	-0.334	3.652	3.299	2.619	26.368	1.037	1.668	
Cp					1.673	0.583	0.699	2.359	-0.334	3.652	3.299	2.619	26.368	1.037	1.668	
3-Month Period Ending																
January	181.1	1712	2509	796	48.00	0.058	0.056	0.490	77.5	21.8	26.8	0	19.0	0.128	48	50
February	180.6	2511	800	48.00	0.057	0.056	0.490	77.5	21.8	26.8	0	19.0	0.128	48	50	
March	179.9	2517	807	48.00	0.058	0.057	0.491	77.1	21.2	30.2	0	19.2	0.117	51	51	
April	177.0	2527	835	48.00	0.053	0.057	0.492									
May																
June																
July																
August																
September																
October																
November																
December																

Fig. 18b

	Machine Speed	Taper Depth						Edge Hardness				Transverse				
		Dry Weight	Vet Weight	Water Loss	Board Width	Opp Code	Opp Code	Caliper	Nail Puff	Core Hardness	Opp Code	End Hardness	d Deflection	Face Up MD	Face Down	F
<b>Current Year Info</b>																
Year-to-date Avg	179.9	1710	2517	807	48.00	0.058	0.057	0.491	77.1	21.2	30.2	0	19.2	0.117	51	51
Entire Year Avg	179.9	2517	807	48.00	0.056	0.057	0.491	77.1	21.2	30.2	0	19.2	0.117	51	51	
December (Last Year)	181.5	2502	791	48.00	0.060	0.058	0.490	77.8	23.0	26.0	0	18.7	0.133	45	49	
January	180.7	1714	2515	801	48.00	0.058	0.058	0.490	77.1	21.2	30.2	0	19.2	0.117	51	51
February	177.0	1692	2527	835	48.00	0.053	0.057	0.492								
<b>Prior Year Info</b>																
Overwrite Historian Data																
Enter Year Avg																
Historian Data																
Entire Year Avg	176.1	2502	791	48.00	0.050	0.056	0.490	77.8	23.0	26.0	0	18.7	0.133	45	49	
Year-to-date Avg	176.1	2502	791	48.00	0.050	0.056	0.490	77.8	23.0	26.0	0	18.7	0.133	45	49	
Entire Year Avg	176.1	2502	791	48.00	0.050	0.056	0.490	77.8	23.0	26.0	0	18.7	0.133	45	49	

424

Fig. 18c

Select Starting Date and Time:		252		253		259		250					
February 25, 2003	12:00 AM												
Select Plant:	Select Period / Frequency:												
Apollo	1 Day - Every 15 Minutes												
Previous								Next					
Select Measures →													
DATA	WE	KF	DE	KF	DE	KF	DE	KF	DE	DE	DE	DE	LB
Running Rounding or Down	DE Product Code	KF Product Code Text	DE Product Code Text	KF Weight	DE Weight	KF Width	DE Width	KF Caliper Average	DE Caliper Average	DE Caliper Edge Differential	DE End Peel Klm One Side Back	LB Humidified Sand Face 2 Hour	
Average													
Standard Deviation													
Date / Time													
2/25/03 12:00 AM	Running	7.000											
2/25/03 12:15 AM	Running	7.000											
2/25/03 12:30 AM	Running	7.000											
2/25/03 12:45 AM	Running	7.000											
2/25/03 1:00 AM	Running	7.000											
2/25/03 1:15 AM	Running	7.000											
2/25/03 1:30 AM	Running	7.000											
2/25/03 1:45 AM	Running	7.000											
2/25/03 2:00 AM	Running	7.000											
2/25/03 2:15 AM	Running	7.000											
2/25/03 2:30 AM	Running	7.000											
2/25/03 2:45 AM	Running	7.000											
2/25/03 3:00 AM	Running	7.000											
2/25/03 3:15 AM	Running	7.000											
2/25/03 3:30 AM	Running	7.000											
2/25/03 3:45 AM	Running	7.000											
2/25/03 4:00 AM	Running	7.000											
2/25/03 4:15 AM	Running	7.000											
2/25/03 4:30 AM	Running	7.000											
2/25/03 4:45 AM	Running	7.000											
2/25/03 5:00 AM	Running	7.000											
2/25/03 5:15 AM	Running	7.000											
2/25/03 5:30 AM	Running	7.000											
2/25/03 5:45 AM	Running	7.000											
2/25/03 6:00 AM	Running	7.000											

Fig. 19

252

Select Starting Date and Time

February 25, 2003	12:00 AM																														
<input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="Previous Month"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="Next Month"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="Today"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="Clear"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="Print"/>																															
<input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="12:00 AM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="1:00 AM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="2:00 AM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="3:00 AM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="4:00 AM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="5:00 AM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="6:00 AM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="7:00 AM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="8:00 AM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="9:00 AM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="10:00 AM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="11:00 AM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="12:00 PM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="1:00 PM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="2:00 PM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="3:00 PM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="4:00 PM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="5:00 PM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="6:00 PM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="7:00 PM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="8:00 PM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="9:00 PM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="10:00 PM"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="11:00 PM"/>																															
<input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="Average"/> <input style="width: 100px; height: 20px; margin-bottom: 5px;" type="button" value="Standard Deviation"/>																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: left; padding: 2px;">Date / Time</th> </tr> </thead> <tbody> <tr> <td style="width: 10%;">2/25/03</td> <td style="width: 20%;">12:00 AM</td> <td style="width: 70%;">Running</td> </tr> <tr> <td>2/25/03</td> <td>12:15 AM</td> <td>Running</td> </tr> <tr> <td>2/25/03</td> <td>12:30 AM</td> <td>Running</td> </tr> <tr> <td>2/25/03</td> <td>12:45 AM</td> <td>Running</td> </tr> <tr> <td>2/25/03</td> <td>1:00 AM</td> <td>Running</td> </tr> <tr> <td>2/25/03</td> <td>1:15 AM</td> <td>Running</td> </tr> <tr> <td>2/25/03</td> <td>1:30 AM</td> <td>Running</td> </tr> <tr> <td>2/25/03</td> <td>1:45 AM</td> <td>Running</td> </tr> <tr> <td>2/25/03</td> <td>2:00 AM</td> <td>Running</td> </tr> </tbody> </table>		Date / Time			2/25/03	12:00 AM	Running	2/25/03	12:15 AM	Running	2/25/03	12:30 AM	Running	2/25/03	12:45 AM	Running	2/25/03	1:00 AM	Running	2/25/03	1:15 AM	Running	2/25/03	1:30 AM	Running	2/25/03	1:45 AM	Running	2/25/03	2:00 AM	Running
Date / Time																															
2/25/03	12:00 AM	Running																													
2/25/03	12:15 AM	Running																													
2/25/03	12:30 AM	Running																													
2/25/03	12:45 AM	Running																													
2/25/03	1:00 AM	Running																													
2/25/03	1:15 AM	Running																													
2/25/03	1:30 AM	Running																													
2/25/03	1:45 AM	Running																													
2/25/03	2:00 AM	Running																													

253

Fig. 20a

255

Baltimore 1
Baltimore 2
Burlington
Fort Dodge
Long Beach
Lorain
Medicine Lodge 1
Medicine Lodge 2
National City
Phoenix
Portsmouth
Rensselaer
Richmond
Rotan
Savannah
Shippingport
Shoals
Tampa 1
Tampa 2
Waukegan
Westwego
Wilmington

Fig. 206

## Select Period / Frequency

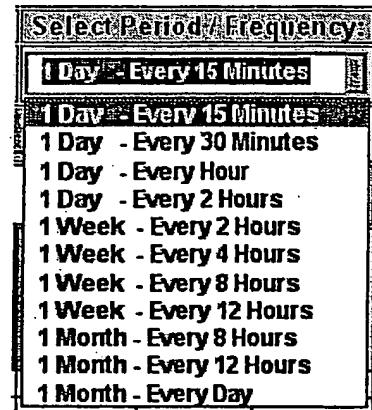


Fig. 20c

## Select Server

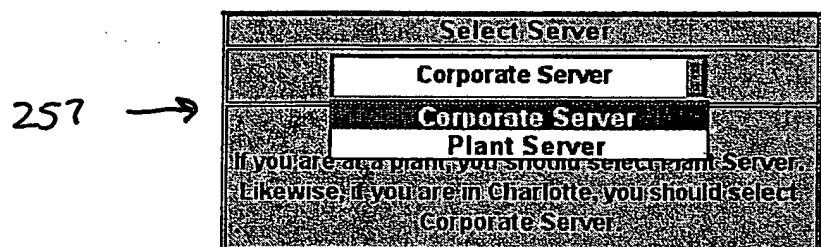


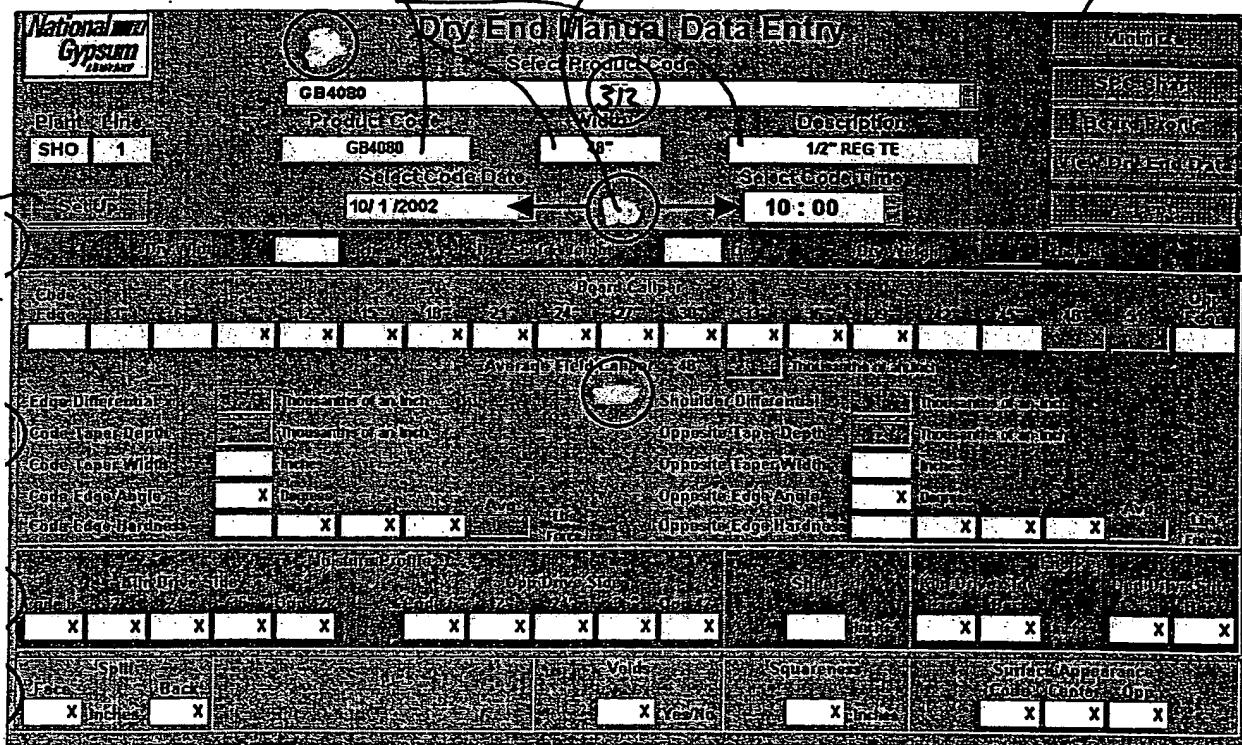
Fig. 20d

## Select Measures (Tags)

258 →

WE	KE	DE	KE	DE	KE	DE	KE
<b>WE Product Code</b>							
WE Product Code:Test							
WE Pulp: % Output							
WE Pulp: Actual							
WE Pulp: Feed Tank Level Gals							
WE Pulp: Target							
WE Pulper: Batch Actual							
WE Pulper: Batch Potash Actual							
WE Pulper: Batch Potash Target							
WE Pulper: Batch Starch Actual							
WE Pulper: Batch Starch Target							
WE Pulper: Batch Target							
WE Pulper: Batch Time Remaining							
WE Pulper: Batch Time Target							
WE Pulper: Batch Waste Water Actual							

Fig. 20e



315

Fig. 21

315

Fig. 22

Select Product		GB4080	312	Minimize																												
Plane	SHO	Product Code	GB4080	SPS Print																												
Flns	1	Length	48"	Board Profile																												
		Width	1/2" REG TE	View All Endpoints																												
Select Date & Time		10/1/2002	10:00:00 AM																													
Setup		Print Page																														
<table border="1"> <tr> <td>Cylinder Height Code</td> <td><input checked="" type="checkbox"/></td> <td>Cylinder Strength Code</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Cylinder Height Field</td> <td><input checked="" type="checkbox"/></td> <td>Cylinder Strength Field</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Cylinder Height Off</td> <td><input checked="" type="checkbox"/></td> <td>Cylinder Strength Off</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Boat Temperature</td> <td><input checked="" type="checkbox"/></td> <td>Differential Boat Temp</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>HC10 Temperature</td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>HC11 Temperature</td> <td><input checked="" type="checkbox"/></td> <td>HC12 Temperature</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>HC13 Temperature</td> <td><input checked="" type="checkbox"/></td> <td>HC14 Temperature</td> <td><input checked="" type="checkbox"/></td> </tr> </table>					Cylinder Height Code	<input checked="" type="checkbox"/>	Cylinder Strength Code	<input checked="" type="checkbox"/>	Cylinder Height Field	<input checked="" type="checkbox"/>	Cylinder Strength Field	<input checked="" type="checkbox"/>	Cylinder Height Off	<input checked="" type="checkbox"/>	Cylinder Strength Off	<input checked="" type="checkbox"/>	Boat Temperature	<input checked="" type="checkbox"/>	Differential Boat Temp	<input checked="" type="checkbox"/>	HC10 Temperature	<input checked="" type="checkbox"/>			HC11 Temperature	<input checked="" type="checkbox"/>	HC12 Temperature	<input checked="" type="checkbox"/>	HC13 Temperature	<input checked="" type="checkbox"/>	HC14 Temperature	<input checked="" type="checkbox"/>
Cylinder Height Code	<input checked="" type="checkbox"/>	Cylinder Strength Code	<input checked="" type="checkbox"/>																													
Cylinder Height Field	<input checked="" type="checkbox"/>	Cylinder Strength Field	<input checked="" type="checkbox"/>																													
Cylinder Height Off	<input checked="" type="checkbox"/>	Cylinder Strength Off	<input checked="" type="checkbox"/>																													
Boat Temperature	<input checked="" type="checkbox"/>	Differential Boat Temp	<input checked="" type="checkbox"/>																													
HC10 Temperature	<input checked="" type="checkbox"/>																															
HC11 Temperature	<input checked="" type="checkbox"/>	HC12 Temperature	<input checked="" type="checkbox"/>																													
HC13 Temperature	<input checked="" type="checkbox"/>	HC14 Temperature	<input checked="" type="checkbox"/>																													

Fig. 23

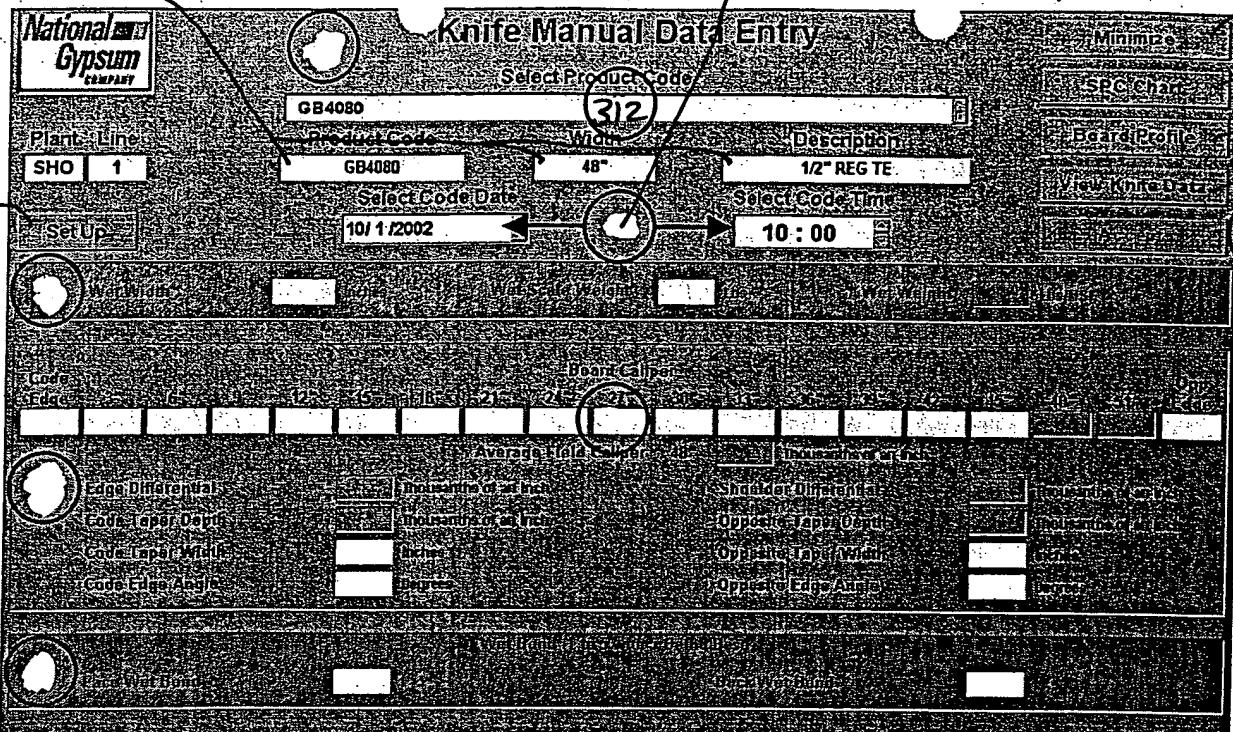


Fig. 24

National Gypsum		LAB MANUAL DATA ENTRY		SPECIMEN	
Select Product		GB4080	312	306	
Plant	SHO	1	48"	12" REG TE	314
Schedule	10/1/2002	311	Specimen	10:00:00	307
Weight					308
Length					
Strength					
Core Hardness					
Color					
Condition					
Hardness					
Grain					

Fig. 25

315